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A.V. Petukhov, W. Akemann, K.A. Friedrich and U. Stimming, Kinetics of electrooxidation of a CO monolayer at the platinum/electrolyte interface 402–404 (1998) 182

W. Akemann, K.A. Friedrich, U. Linke and U. Stimming, The catalytic oxidation of carbon monoxide at the platinum/electrolyte interface investigated by optical second harmonic generation (SHG): comparison of Pt(111) and Pt(997) electrode surfaces 402–404 (1998) 571

H. Bludau, K. Wu, M.S. Zei, M. Eiswirth, H. Over and G. Ertl, The structure of the underpotential deposition of copper on to Pt(111) in the presence of chloride anions: a LEED structure analysis 402–404 (1998) 786

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Photoemission (total yield)

E. Wetli, T.J. Kreutz, H. Schmid, T. Greber, J. Osterwalder and M. Hochstrasser, High resolution photoemission study of hcp-Co(0001) 402–404 (1998) 551

P.L. Wincott, A.F. Prime, P.J. Hardman, C.A. Muryn, G. Thornton and P. Bailey, Core level studies of sodium tungsten bronze, $Na_{0.64}WO_3$(110)3 × 1 402–404 (1998) 705

C. Setzer, J. Platen, H. Bludau, M. Gierer, H. Over and K. Jacobi, LEED intensity and surface core level shift analysis of the MBE-prepared GaAs($\bar{1}\bar{1}\bar{1}$)B(2 × 2) surface 402–404 (1998) 782

Secondary electron emission

J. Almeida, G. Margaritondo, M. Righini, S. Selci, C. Coluzza, Ballistic-electron emission and secondary photoelectron microscopy of the sulfur-passivated Pt–GaP(001) interface 402–404 (1998) 470

Electron energy loss spectroscopy

T. Angot and R. Chelly, Stable Ge–H phase at 620 K on $Si_{1-x}Ge_x$/Si(001) surface: a high resolution electron energy loss spectroscopy study 402–404 (1998) 52

R. Linke, Th. Pelster, M. Tanemura, C. Becker and K. Wandelt, Adsorption of CO on the ordered Ni_3Al(111) surface 402–404 (1998) 76

G. Boishin, Alkali–germanium surface compound formation on a Ge(100)-(2 × 1) surface 402–404 (1998) 96

Y.L. Chan, P. Chuang, T.J. Chuang and R. Klauser, Vibrational study of methylene radical interaction on the Cu(111) surface 402–404 (1998) 125

M.F. Luo, Z.Y. Li and W. Allison, Initial stages of C_{60} thin film growth on graphite 402–404 (1998) 437

M.-H. Schaffner, F. Patthey, W.-D. Schneider and L.G.M. Pettersson, Electron energy loss spectroscopy (EELS) of thermally evaporated Cu deposited on MgO(100)/Mo(100) 402–404 (1998) 450

M. Krawczyk, A. Jablonski, S. Tougaard, J. Toth, D. Varga and G. Gergely, The inelastic mean free path and the inelastic scattering cross-section of electrons in GaAs determined from highly resolved electron energy spectra 402–404 (1998) 491

J. Kröger, S. Lehwald and H. Ibach, Substrate surface phonons in the cases of saturated (1 × 1)H/Mo(110) and p(2 × 2)O/Mo(110) : a critical comparison 402–404 (1998) 496

S. Suto, K. Sakamoto, T. Wakita, M. Harada and A. Kasuya, Interaction of C_{60} with silicon dangling bonds on the Si(111)-(7 × 7) surface 402–404 (1998) 523

R. Biagi, L. Rettighieri, U. del Pennino, V. Panella and P. Dumas, Charge accumulation layer induced by potassium adsorption on hydrogen terminated Si(111)(1 × 1) 402–404 (1998) 547

Electron microscopy

P.D. Cobden, Y. van Breugel and B.E. Nieuwenhuys, Local independent oscillation centres present on an iridium field emitter during the NO–H_2 reaction 402–404 (1998) 155

Ballistic electron emission microscopy (BEEM)

J. Almeida, G. Margaritondo, M. Righini, S. Selci, C. Coluzza, Ballistic-electron emission and secondary photoelectron microscopy of the sulfur-passivated Pt–GaP(001) interface 402–404 (1998) 470

Reflection electron microscopy (REM)

M. Horn-von Hoegen, H. Minoda, K. Yagi, F. Meyer zu Heringdorf and D. Kähler, Macroscopic one-dimensional faceting of Si(100) upon Au adsorption 402–404 (1998) 464

Scanning electron microscopy (SEM)

L. Jurczyszyn, N. Mingo and F. Flores, Influence of the atomic and electronic structure of the tip on STM images and STS spectra 402–404 (1998) 459

Scanning transmission electron microscopy (STEM)

J. Aizpurua, A. Rivacoba, N. Zabala and F.J. García de Abajo, Collective excitations in an infinite set of aligned spheres 402–404 (1998) 418

Electron–solid diffraction

Auger electron diffraction

Y. Huttel, J. Avila, M.C. Asensio, P. Bencok, C. Richter, V. Ilakovac, O. Heckmann and K. Hricovini, Auger electron diffraction study of V/Fe(100) interface formation 402–404 (1998) 609

L. Niebergall, P. Rennert, A. Chassé and Yu. Kucherenko, Angle-resolved PED and AED calculations for different structures of the diamond C(111) surface 402–404 (1998) 628

Low energy electron diffraction (LEED)

E. Umbach, K. Glöckler and M. Sokolowski, Surface "architecture" with large organic molecules: interface order and epitaxy 402–404 (1998) 20

M. Kamaratos, V. Saltas, C.A. Papageorgopoulos, W. Jaegermann, C. Pettenkofer and D. Tonti, Interaction of Na and Cl_2 on WSe_2(0001) surfaces: chlorine-induced Na deintercalation 402–404 (1998) 37

R. Linke, Th. Pelster, M. Tanemura, C. Becker and K. Wandelt, Adsorption of CO on the ordered Ni_3Al(111) surface 402–404 (1998) 76

C.A. Papageorgopoulos, M. Kamaratos and A. Papageorgopoulos, Coadsorption of Na and elemental S on Ni(100) 402–404 (1998) 120

M.-A. Zaïbi, J.-P. Lacharme and C.A. Sébenne, The effect of temperature on NH_3–Si(111) interaction 402–404 (1998) 206

S. Hadenfeldt and C. Benndorf, Adsorption of fluorine and chlorine on the diamond (100) surface 402–404 (1998) 227

J. Wollschläger, D. Erdös and K.-M. Schröder, The formation of mosaics during the reactive growth of MgO films on Ag(100) 402–404 (1998) 272

P. Schieffer, C. Krembel, M.C. Hanf and G. Gewinner, Growth of pseudomorphic body centered tetragonal Mn films with an abrupt interface on Ag(001) 402–404 (1998) 318

D. Sander, A. Enders, C. Schmidthals, D. Reuter and J. Kirschner, Mechanical stress and magnetism of ferromagnetic monolayers 402–404 (1998) 351

M.F. Luo, Z.Y. Li and W. Allison, Initial stages of C_{60} thin film growth on graphite 402–404 (1998) 437

M. Horn-von Hoegen, H. Minoda, K. Yagi, F. Meyer zu Heringdorf and D. Kähler, Macroscopic one-dimensional faceting of Si(100) upon Au adsorption 402–404 (1998) 464

Ch. Hagendorf, K.-M. Schindler, T. Doege and H. Neddermeyer, An STM, XPS and LEED investigation of the $BaTiO_3$(111) surface 402–404 (1998) 581

C. Schmidthals, A. Enders, D. Sander and J. Kirschner, Coexistence of pseudomorphic and coincidence phases in nickel monolayers 402–404 (1998) 636

T. Ollonqvist, M. Punkkinen, J. Väyrynen and O. Dmitrieva, Inverse photoemission spectra of the Nb(111) surface 402–404 (1998) 678

Y. Takeda, T. Urano, T. Ohtani, K. Tamiya and S. Hongo, Adsorption structure and silicide formation of Ba on the Si(001) surface 402–404 (1998) 692

I. Bartoš, M.A. Van Hove, W.F. Chung, Z. He and M.S. Altman, Ag(111) electron band structure and channeling by VLEED 402–404 (1998) 697

H. Nörenberg and G.A.D. Briggs, Surface structure of CeO_2(111) studied by low current STM and electron diffraction 402–404 (1998) 734

C. Setzer, J. Platen, H. Bludau, M. Gierer, H. Over and K. Jacobi, LEED intensity and surface core level shift analysis of the MBE-prepared GaAs($\bar{1}\bar{1}\bar{1}$)B(2 × 2) surface 402–404 (1998) 782

H. Bludau, K. Wu, M.S. Zei, M. Eiswirth, H. Over and G. Ertl, The structure of the underpotential deposition of copper on to Pt(111) in the presence of chloride anions: a LEED structure analysis 402–404 (1998) 786

Photoelectron diffraction

W.F. Egelhoff, Jr., Fluorine as a surfactant in the deposition of a monolayer of Fe on Cu(100) 402–404 (1998) 32

P. Aebi, R. Fasel, D. Naumović, J. Hayoz, Th. Pillo, M. Bovet, R.G. Agostino, L. Patthey, L. Schlapbach, F.P. Gil, H. Berger, T.J. Kreutz and J. Osterwalder, Angle-scanned photoemission: Fermi surface mapping and structural determination 402–404 (1998) 614

L. Niebergall, P. Rennert, A. Chassé and Yu. Kucherenko, Angle-resolved PED and AED calculations for different structures of the diamond C(111) surface 402–404 (1998) 628

Reflection high-energy electron diffraction (RHEED)

D. Dentel, J.L. Bischoff, T. Angot and L. Kubler, The influence of hydrogen during the growth of Ge films on Si(001) by solid source molecular beam epitaxy 402–404 (1998) 211

L. Däweritz, P. Schützendübe, M. Reiche and K.H. Ploog, Real-time analysis of Si monolayer formation on GaAs(001) during MBE 402–404 (1998) 257

D. Dentel, J.L. Bischoff, D. Bolmont and L. Kubler, Reflection high-energy electron diffraction intensity oscillations during Si growth on Ge(001) by solid source molecular beam epitaxy 402–404 (1998) 304

Y. Shigeta, Y. Fukaya, H. Mitsui and K. Nakamura, Observation of RHEED rocking curves during Si/Si(111) film growth 402–404 (1998) 313

P. Bencok, S. Andrieu, P. Arcade, C. Richter, V. Ilakovac, O. Heckmann, M. Vesely and K. Hricovini, Growth of vanadium ultrathin films on Fe(100) studied by RHEED 402–404 (1998) 327

M.A. James, F.C. Voogt, L. Niesen, O.C. Rogojanu and T. Hibma, The role of interfacial structure in determining magnetic behaviour in MBE-grown Fe_3O_4–MgO multilayers on MgO(001) 402–404 (1998) 332

H. Nörenberg and G.A.D. Briggs, Surface structure of CeO_2(111) studied by low current STM and electron diffraction 402–404 (1998) 734

Inverse photoemission spectroscopy

T. Ollonqvist, M. Punkkinen, J. Väyrynen and O. Dmitrieva, Inverse photoemission spectra of the Nb(111) surface 402–404 (1998) 678

Ion etching

T. Matsuura, T. Sugiyama and J. Murota, Atomic-layer surface reaction of chlorine on Si and Ge assisted by an ultraclean ECR plasma 402–404 (1998) 202

V.V. Aristov, V.V. Kazmiruk, V.A. Kudryashov, V.I. Levashov, S.I. Red'kin, C.W. Hagen and P. Kruit, Microfabrication of ultrathin free-standing platinum foils 402–404 (1998) 337

Ion implantation

I.V. Kravetsky, L.L. Kulyuk, J.F. McGilp, M. Cavanagh, S. Chandola, J. Boness, G. Marowsky and F. Harbsmeier, A study of ion-implanted Si(111) and Si(111)/silicon oxide by optical second harmonic generation 402–404 (1998) 542

Ion scattering spectroscopy

K. Tabata, T. Choso, A. Murakami and E. Suzuki, Topmost surface analysis of a z-cut $LiNbO_3$ by coaxial impact-collision ion scattering spectroscopy 402–404 (1998) 487

Low energy ion scattering (LEIS)

N. Lorente, D. Teillet-Billy and J.-P. Gauyacq, Charge transfer as responsible for H_2^+ dissociation on aluminum surfaces 402–404 (1998) 197

M. Naitoh, A. Konishi, H. Inenaga, S. Nishigaki, N. Oishi and F. Shoji, Ga-rich GaP(001)(2 × 4) surface structure studied by low-energy ion scattering spectroscopy 402–404 (1998) 623

M. Aschoff, G. Piaszenski, S. Speller and W. Heiland, The structure of the $Au_3Pd(113)$ surface studied by low energy ion scattering 402–404 (1998) 770

Laser methods

H.S. Karlsson, R. Viselga and U.O. Karlsson, Electron accumulation at the InAs(110) cleavage surface 402–404 (1998) 590

Magnetic measurements

A. Kirilyuk, P.E. Hansen, S. Yuasa, T. Katayama and Th. Rasing, Nonlinear magneto-optical response from quantum well states in an Fe(001) wedge 402–404 (1998) 356

Y. Li, C. Polaczyk and D. Riegel, Thickness and magnetic field dependence of the ferromagnetism of ultrathin Gd films in Gd/W multilayers 402–404 (1998) 386

U. Bovensiepen, P. Poulopoulos, M. Farle and K. Baberschke, The Curie temperature in ultrathin Ni/Cu(001) films determined by ac susceptibility and MOKE 402–404 (1998) 396

Molecular beam epitaxy

E. Umbach, K. Glöckler and M. Sokolowski, Surface "architecture" with large organic molecules: interface order and epitaxy 402–404 (1998) 20

D. Dentel, J.L. Bischoff, T. Angot and L. Kubler, The influence of hydrogen during the growth of Ge films on Si(001) by solid source molecular beam epitaxy 402–404 (1998) 211

L. Däweritz, P. Schützendübe, M. Reiche and K.H. Ploog, Real-time analysis of Si monolayer formation on GaAs(001) during MBE 402–404 (1998) 257

J. Wollschläger, D. Erdös and K.-M. Schröder, The formation of mosaics during the reactive growth of MgO films on Ag(100) 402–404 (1998) 272

Y. Shigeta, Y. Fukaya, H. Mitsui and K. Nakamura, Observation of RHEED rocking curves during Si/Si(111) film growth 402–404 (1998) 313
P. Bencok, S. Andrieu, P. Arcade, C. Richter, V. Ilakovac, O. Heckmann, M. Vesely and K. Hricovini, Growth of vanadium ultrathin films on Fe(100) studied by RHEED 402–404 (1998) 327
C. Setzer, J. Platen, H. Bludau, M. Gierer, H. Over and K. Jacobi, LEED intensity and surface core level shift analysis of the MBE-prepared GaAs($\bar{1}\bar{1}\bar{1}$)B(2 × 2) surface 402–404 (1998) 782

Molecule–solid reactions

M. Brandt, T. Greber, F. Kuhlmann, N. Böwering and U. Heinzmann, State- and orientation-dependent N_2 emission in the N_2O + Cs reaction 402–404 (1998) 160
N. Lorente, D. Teillet-Billy and J.-P. Gauyacq, Charge transfer as responsible for H_2^+ dissociation on aluminum surfaces 402–404 (1998) 197
D. Wetzig, M. Rutkowski, W. Etterich, R. David and H. Zacharias, Rotational alignment in associative desorption of H_2 from Pd(100) 402–404 (1998) 232
W. Akemann, K.A. Friedrich, U. Linke and U. Stimming, The catalytic oxidation of carbon monoxide at the platinum/electrolyte interface investigated by optical second harmonic generation (SHG): comparison of Pt(111) and Pt(997) electrode surfaces 402–404 (1998) 571

Molecule–solid scattering and diffraction – inelastic

K. Brüning, J. Granow, M. Reiniger, W. Heiland, M. Vicanek and T. Schlathölter, Dissociation of fast N_2 molecules at a Pd(110) surface 402–404 (1998) 215

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Second harmonic generation

K. Nakamura, A. Kurokawa and S. Ichimura, Increased rate of ozone adsorption on Si(111)-(7 × 7) with nitrogen preadsorption 402–404 (1998) 165
M. Wierzbicki and J. Kocinski, Spatially modulated optical tensors in magnetic superlattices 402–404 (1998) 382
J. Boness, G. Marowsky, J. Braun, G. Witte and H.-G. Rubahn, Second-harmonic generation from sodium covered Si(111)7 × 7 surfaces 402–404 (1998) 513
H. Tanaka, G. Mizutani and S. Ushioda, A new resonance of the surface SHG from GaAs(001) in air 402–404 (1998) 533
E. Kobayashi, T. Wakasugi, G. Mizutani and S. Ushioda, Optical second harmonic spectroscopy of rutile TiO_2(110) in air 402–404 (1998) 537
I.V. Kravetsky, L.L. Kulyuk, J.F. McGilp, M. Cavanagh, S. Chandola, J. Boness, G. Marowsky and F. Harbsmeier, A study of ion-implanted Si(111) and Si(111)/silicon oxide by optical second harmonic generation 402–404 (1998) 542
W. Akemann, K.A. Friedrich, U. Linke and U. Stimming, The catalytic oxidation of carbon monoxide at the platinum/electrolyte interface investigated by optical second harmonic generation (SHG): comparison of Pt(111) and Pt(997) electrode surfaces 402–404 (1998) 571

Sum frequency generation

H. Tanaka, G. Mizutani and S. Ushioda, A new resonance of the surface SHG from GaAs(001) in air 402–404 (1998) 533
E. Kobayashi, T. Wakasugi, G. Mizutani and S. Ushioda, Optical second harmonic spectroscopy of rutile TiO_2(110) in air 402–404 (1998) 537

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M. Bauer, S. Pawlik, R. Burgermeister and M. Aeschlimann, Symmetry properties of an electronic alkali excitation at a noble metal surface as investigated by two-photon photoemission 402–404 (1998) 62
T. Kuriyama, K. Kunimori and H. Nozoye, Interaction of CO with the SmO_x/Ru(001) interface 402–404 (1998) 178
J. Bansmann, M. Getzlaff, G. Schönhense, M. Fluchtmann and J. Braun, Valence band photoemission from thin iron films – a comparison of experimental and theoretical results 402–404 (1998) 365
L. Ottaviano, L. Lozzi, F. Rispoli and S. Santucci, Hexadecafluoro-copper-phthalocyanine UHV deposited onto Si(111) 7 × 7 substrate: an XPS study 402–404 (1998) 518
M. Shimoda, S. Tsukamoto and N. Koguchi, Coverage analysis of a sulfur-terminated GaAs(001)-(2 × 6) surface: the effect of double sulfur-treatment 402–404 (1998) 669
H. Raza, P.L. Wincott, G. Thornton, R. Casanova and A. Rodriguez, Photoemission studies of the reaction of benzene with TiO_2(100)1 × 1 and 1 × 3 402–404 (1998) 710
I. Vobornik, C. Quitmann, M. Zacchigna, F. Zwick, M. Grioni, A. Karkin, R.J. Kelley, M. Onellion and G. Margaritondo, Irradiation-induced disorder in high-T_c cuprates: electronic band structure study 402–404 (1998) 761
A.D. Laine, C. Cepek, A. Goldoni, S. Vandré, M. DeSeta, N. Franco, J. Avila, M.C. Asensio and M. Sancrotti, Photoemission of Ge(110) at room and high temperature 402–404 (1998) 875

Angle resolved photoemission

H.S. Karlsson, R. Viselga and U.O. Karlsson, Electron accumulation at the InAs(110) cleavage surface 402–404 (1998) 590
M. Fluchtmann, S. Bei der Kellen, J. Braun and G. Borstel, Relativistic full-potential photoemission for Cu(111) 402–404 (1998) 663
H. Raza, P.L. Wincott, G. Thornton, R. Casanova and A. Rodriguez, Photoemission studies of the reaction of benzene with TiO_2(100)1 × 1 and 1 × 3 402–404 (1998) 710
A. Mascaraque, J. Avila, M.C. Asensio and E.G. Michel, Band structure and gap opening in Pb/Ge(111) 402–404 (1998) 742

I. Vobornik, C. Quitmann, M. Zacchigna, F. Zwick, M. Grioni, A. Karkin, R.J. Kelley, M. Onellion and G. Margaritondo, Irradiation-induced disorder in high-T_c cuprates: electronic band structure study 402–404 (1998) 761

Soft X-ray photoelectron spectroscopy (using synchrotron radiation)

M. Reichling, M. Huisinga, D. Ochs and V. Kempter, Electron- and photon-stimulated metallization and oxidation of the $CaF_2(111)$ surface 402–404 (1998) 145

Visible and ultraviolet photoelectron spectroscopy

M. Bauer, S. Pawlik, R. Burgermeister and M. Aeschlimann, Symmetry properties of an electronic alkali excitation at a noble metal surface as investigated by two-photon photoemission 402–404 (1998) 62
R. Reissner, U. Radke, M. Schulze and E. Umbach, Water coadsorbed with oxygen and potassium on thin NiO(100) films 402–404 (1998) 71
R. Kleyna, D. Borgmann and G. Wedler, Adsorption and reaction of propene on Ni(100) 402–404 (1998) 131
M. Grüne, J. Radnik and K. Wandelt, Reaction of nitrogen with fcc- and bcc-iron films on copper(100) 402–404 (1998) 236

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R. Kleyna, D. Borgmann and G. Wedler, Adsorption and reaction of propene on Ni(100) 402–404 (1998) 131
S.J. Roosendaal, A.M. Vredenburg and F.H.P.M. Habraken, The influence of adsorbed N in the initial stages of oxidation of iron 402–404 (1998) 135
L.D. López-Carreño, G. Benítez, L. Viscido, J.M. Heras, F. Yubero, J.P. Espinós and A.R. González-Elipe, Different oxidation states of polycrystalline molybdenum treated by O_2-plasma or O_2-ion bombardment 402–404 (1998) 174
E. Magnano, S. Vandré, J. Kovac, E. Narducci, R. Caloi, P. Manini and M. Sancrotti, Surface and subsurface properties of a $BaLi_4$ gettering alloy studied using X-ray photoemission spectroscopy 402–404 (1998) 223
G. Held, W. Sklarek, M. Mayan and H.-P. Steinrück, Characterization of thin copper films on Ni(111) by CO titration 402–404 (1998) 322
L. Ottaviano, L. Lozzi, F. Rispoli and S. Santucci, Hexadecafluoro-copper-phthalocyanine UHV deposited onto Si(111) 7×7 substrate: an XPS study 402–404 (1998) 518
J. Zemek, V. Kamberský, P. de Haan, J. Weber and P. Janda, Surfaces and interfaces of Pd/Co multilayers 402–404 (1998) 529
Ch. Hagendorf, K.-M. Schindler, T. Doege and H. Neddermeyer, An STM, XPS and LEED investigation of the $BaTiO_3(111)$ surface 402–404 (1998) 581
I.Z. Jones, R.A. Bennett and M. Bowker, CO adsorption on Pd(110) 402–404 (1998) 595
D. Zerulla, I. Uhlig, R. Szargan and T. Chassé, Competing interaction of different thiol species on gold surfaces 402–404 (1998) 604
H. Raza, P.L. Wincott, G. Thornton, R. Casanova and A. Rodriguez, Photoemission studies of the reaction of benzene with $TiO_2(100)1 \times 1$ and 1×3 402–404 (1998) 710

Synchrotron radiation photoelectron spectroscopy

M. Kamaratos, V. Saltas, C.A. Papageorgopoulos, W. Jaegermann, C. Pettenkofer and D. Tonti, Interaction of Na and Cl_2 on $WSe_2(0001)$ surfaces: chlorine-induced Na deintercalation 402–404 (1998) 37
R. Klauser, P.S. Asoka Kumar and T.J. Chuang, The interaction of Ga and N on SiC and $LiGaO_2$ surfaces studied by synchrotron radiation photoemission 402–404 (1998) 87
J. Bansmann, L. Lu and M. Getzlaff, Magnetic dichroism in photoemission from oxygen atoms adsorbed on cobalt surfaces 402–404 (1998) 371
A.A. Cafolla, A new stochastic optimisation strategy for quantitative analysis of core level photoemission data 402–404 (1998) 561
I.Z. Jones, R.A. Bennett and M. Bowker, CO adsorption on Pd(110) 402–404 (1998) 595
P.J. Møller, Z.S. Li, T. Egebjerg, M. Sambi and G. Granozzi, Synchrotron-radiation-induced photoemission study of VO_2 ultrathin films deposited on $TiO_2(110)$ 402–404 (1998) 719
A.D. Laine, M. DeSeta, C. Cepek, S. Vandré, A. Goldoni, N. Franco, J. Avila, M.C. Asensio and M. Sancrotti, Surface phase transitions of Ge(100) studied via valence band photoemission 402–404 (1998) 871

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Extended X-ray absorption fine structure (EXAFS)

K.-M. Behrens, E.-D. Klinkenberg, J. Finster and K.-H. Meiwes-Broer, Geometric structure of thin SiO_xN_y films on Si(100) 402–404 (1998) 729

Infrared absorption spectroscopy

I. Nakamura, H. Nakano, T. Fujitani, T. Uchijima and J. Nakamura, Evidence for a special formate species adsorbed on the Cu–Zn active site for methanol synthesis 402–404 (1998) 92
K. Wolter, O. Seiferth, J. Libuda, H. Kuhlenbeck, M. Bäumer and H.-J. Freund, Infrared study of CO adsorption on alumina supported palladium particles 402–404 (1998) 428
G. Fahsold, W. Keller, O. Krauth and A. Lehmann, Infrared absorption of Fe ultrathin films on ionic crystals 402–404 (1998) 790

Near edge extended X-ray absorption fine structure (NEXAFS)

E. Umbach, K. Glöckler and M. Sokolowski, Surface "architecture" with large organic molecules: interface order and epitaxy 402–404 (1998) 20
P. Srivastava, F. Wilhelm, A. Ney, N. Haack, H. Wende and K. Baberschke, Modifications in the electronic structure of 3d single-, bi- and tri-layers on Cu(001) 402–404 (1998) 818

Plasma processing

T. Matsuura, T. Sugiyama and J. Murota, Atomic-layer surface reaction of chlorine on Si and Ge assisted by an ultraclean ECR plasma 402–404 (1998) 202
V.V. Aristov, V.V. Kazmiruk, V.A. Kudryashov, V.I. Levashov, S.I. Red'kin, C.W. Hagen and P. Kruit, Microfabrication of ultrathin free-standing platinum foils 402–404 (1998) 337

Reflection spectroscopy

A.V. Petukhov and Th. Rasing, A new linear-optical tool for surface magnetism? 402–404 (1998) 360
D. Martin, J. Jupille and Y. Borensztein, Silver particle sizes and shapes as determined during a deposit by in situ surface differential reflectance 402–404 (1998) 433
J. Zhang, A.K. Lees, A. Schnellinger, J.R. Engstrom, M.L. Hsieh, Jh.-T. Zettler, A.G. Taylor and B.A. Joyce, Kinetics and dynamics of Si GSMBE studied by reflectance anisotropy spectroscopy 402–404 (1998) 480
J.R. Power, P. Weightman and A.A. Cafolla, The initial stages of Ge–GaAs(100) interface formation studied by reflectance anisotropy spectroscopy and low-energy electron diffraction 402–404 (1998) 566
C.D. Hogan and C.H. Patterson, Reflectance anisotropies of silicon surfaces: analysis of spectra in terms of surface excess susceptibilities 402–404 (1998) 586
K. Ota, M. Tanaka and S. Usami, Oxygen adsorption on a W(100) surface studied by reflectance spectroscopy and electron energy-loss fine structure 402–404 (1998) 813

Scanning tunneling microscopy

Y. Iwasawa, Dynamic oxide interfaces by microscopic techniques at high resolutions 402–404 (1998) 8
E. Umbach, K. Glöckler and M. Sokolowski, Surface "architecture" with large organic molecules: interface order and epitaxy 402–404 (1998) 20
H.J. Venvik, C. Berg and A. Borg, CO adsorption on Co(10$\bar{1}$2) – a STM study 402–404 (1998) 57
M. Wilms, P. Broekmann, M. Kruft, Z. Park, C. Stuhlmann and K. Wandelt, STM investigation of specific anion adsorption on Cu(111) in sulfuric acid electrolyte 402–404 (1998) 83
K. Hattori, K. Shudo, M. Ueta, T. Iimori and F. Komori, Hydrogen–chlorine exchange reaction on Si(111)-7 × 7 studied with STM 402–404 (1998) 170
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A. Steltenpohl and N. Memmel, Homoepitaxial growth of Pd on Pd(111) – a search for the contribution of electronic surface states to the Ehrlich–Schwoebel barrier 402–404 (1998) 277
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G. Rosenfeld, K. Morgenstern, I. Beckmann, W. Wulfhekel, E. Lægsgaard, F. Besenbacher and G. Comsa, Stability of two-dimensional clusters on crystal surfaces: from Ostwald ripening to single cluster decay 402–404 (1998) 401
A. Rettenberger, P. Bruker, M. Metzler, F. Mugele, Th.W. Matthes, M. Böhmisch, J. Boneberg, K. Friemelt and P. Leiderer, STM investigation of the island growth of gold on WS_2 and WSe_2 402–404 (1998) 409
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G. Boishin, Alkali–germanium surface compound formation on a Ge(100)-(2 × 1) surface 402–404 (1998) 96

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T. Angot and R. Chelly, Stable Ge–H phase at 620 K on $Si_{1-x}Ge_x$/Si(001) surface: a high resolution electron energy loss spectroscopy study 402–404 (1998) 52

H.J. Venvik, C. Berg and A. Borg, CO adsorption on Co(10$\bar{1}$2) – a STM study 402–404 (1998) 57

R. Reissner, U. Radke, M. Schulze and E. Umbach, Water coadsorbed with oxygen and potassium on thin NiO(100) films 402–404 (1998) 71

R. Linke, Th. Pelster, M. Tanemura, C. Becker and K. Wandelt, Adsorption of CO on the ordered $Ni_3Al(111)$ surface 402–404 (1998) 76

S.J. Roosendaal, A.M. Vredenburg and F.H.P.M. Habraken, The influence of adsorbed N in the initial stages of oxidation of iron 402–404 (1998) 135

K. Hattori, K. Shudo, M. Ueta, T. Iimori and F. Komori, Hydrogen–chlorine exchange reaction on Si(111)-7 × 7 studied with STM 402–404 (1998) 170

T. Kuriyama, K. Kunimori and H. Nozoye, Interaction of CO with the SmO_X/Ru(001) interface 402–404 (1998) 178

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A. Steltenpohl and N. Memmel, Homoepitaxial growth of Pd on Pd(111) – a search for the contribution of electronic surface states to the Ehrlich–Schwoebel barrier 402–404 (1998) 277
G. Wedler, J. Walz, T. Hesjedal, E. Chilla and R. Koch, Intrinsic stress upon Stranski–Krastanov growth of Ge on Si(001) 402–404 (1998) 290
K. Meinel, H. Wolter, Ch. Ammer and H. Neddermeyer, A misfit-induced relaxation structure of epitaxial Cu films on Ru(0001) and its potential use for nanostructuring 402–404 (1998) 299
P. Bencok, S. Andrieu, P. Arcade, C. Richter, V. Ilakovac, O. Heckmann, M. Vesely and K. Hricovini, Growth of vanadium ultrathin films on Fe(100) studied by RHEED 402–404 (1998) 327
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D. Sander, A. Enders, C. Schmidthals, D. Reuter and J. Kirschner, Mechanical stress and magnetism of ferromagnetic monolayers 402–404 (1998) 351
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P.J. Møller, Z.S. Li, T. Egebjerg, M. Sambi and G. Granozzi, Synchrotron-radiation-induced photoemission study of VO_2 ultrathin films deposited on TiO_2(110) 402–404 (1998) 719

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J. Wollschläger, D. Erdös and K.-M. Schröder, The formation of mosaics during the reactive growth of MgO films on Ag(100) 402–404 (1998) 272

A. Steltenpohl and N. Memmel, Homoepitaxial growth of Pd on Pd(111) – a search for the contribution of electronic surface states to the Ehrlich–Schwoebel barrier 402–404 (1998) 277

R. Ferrando, F. Hontinfinde and A.C. Levi, Cluster morphology transitions in the submonolayer epitaxial growth of Ag on Ag(110) 402–404 (1998) 286

J.Y. Veuillen, P. Mallet and J.-M. Gómez-Rodriguez, Growth of Si on disordered Si(111)(1×1) surfaces 402–404 (1998) 295

D. Dentel, J.L. Bischoff, D. Bolmont and L. Kubler, Reflection high-energy electron diffraction intensity oscillations during Si growth on Ge(001) by solid source molecular beam epitaxy 402–404 (1998) 304

T.R. Linderoth, S. Horch, E. Lægsgaard, I. Stensgaard and F. Besenbacher, Dynamics of Pt adatoms and dimers on Pt(110)-(1×2) observed directly by STM 402–404 (1998) 308

G. Held, W. Sklarek, M. Mayan and H.-P. Steinrück, Characterization of thin copper films on Ni(111) by CO titration 402–404 (1998) 322

P. Bencok, S. Andrieu, P. Arcade, C. Richter, V. Ilakovac, O. Heckmann, M. Vesely and K. Hricovini, Growth of vanadium ultrathin films on Fe(100) studied by RHEED 402–404 (1998) 327

J. Camarero, J.J. de Miguel, T. Graf, R. Miranda, W. Kuch, M. Zharnikov, A. Dittschar, C.M. Schneider and J. Kirschner, Tailoring epitaxial growth of low-dimensional magnetic structures by using surfactants 402–404 (1998) 346

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J. Bansmann, L. Lu and M. Getzlaff, Magnetic dichroism in photoemission from oxygen atoms adsorbed on cobalt surfaces 402–404 (1998) 371

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S. Scandolo, F. Ancilotto, G.L. Chiarotti, G. Santoro, S. Serra and E. Tosatti, First principles calculations of charge and spin density waves of $\sqrt{3}$-adsorbates on semiconductors 402–404 (1998) 808

A.D. Laine, C. Cepek, A. Goldoni, S. Vandré, M. DeSeta, N. Franco, J. Avila, M.C. Asensio and M. Sancrotti, Photoemission of Ge(110) at room and high temperature 402–404 (1998) 875

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A.V. Puchina, V.E. Puchin, M. Huisinga, R. Bennewitz and M. Reichling, Theoretical modelling of steps and surface oxidation on CaF_2(111) 402–404 (1998) 687

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K. Madih-Ayadi, N. Dupont-Pavlovsky, X. Duval, A. Ayadi and J.F. Marêché, Methane adsorption on dichloromethane preplated graphite: 2D phase transitions on dual surfaces 402–404 (1998) 836

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O.A. Aktsipetrov, E.D. Mishina, T.V. Misuryaev, A.A. Nikulin, V.R. Novak, R. Stolle and Th. Rasing, Nonlinear optical interferometry and second harmonic generation spectroscopy of Langmuir films of fullerene-indopane derivative 402–404 (1998) 576

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D. Zerulla, I. Uhlig, R. Szargan and T. Chassé, Competing interaction of different thiol species on gold surfaces 402–404 (1998) 604

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Surface chemical reaction

G. Boishin, Alkali–germanium surface compound formation on a Ge(100)-(2 × 1) surface 402–404 (1998) 96

Y. Baba, K. Yoshii and T.A. Sasaki, Desorption of fragment ions from mono- and multilayered CCl_4 on Cu(100) by inner-shell photoexcitation 402–404 (1998) 115

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P.D. Cobden, Y. van Breugel and B.E. Nieuwenhuys, Local independent oscillation centres present on an iridium field emitter during the NO–H_2 reaction 402–404 (1998) 155

M. Brandt, T. Greber, F. Kuhlmann, N. Böwering and U. Heinzmann, State- and orientation-dependent N_2 emission in the $N_2O + Cs$ reaction 402–404 (1998) 160
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A.V. Petukhov, W. Akemann, K.A. Friedrich and U. Stimming, Kinetics of electrooxidation of a CO monolayer at the platinum/electrolyte interface 402–404 (1998) 182
D. Wetzig, M. Rutkowski, W. Etterich, R. David and H. Zacharias, Rotational alignment in associative desorption of H_2 from Pd(100) 402–404 (1998) 232
M. Grüne, J. Radnik and K. Wandelt, Reaction of nitrogen with fcc- and bcc-iron films on copper(100) 402–404 (1998) 236
L. Ottaviano, L. Lozzi, F. Rispoli and S. Santucci, Hexadecafluoro-copper-phthalocyanine UHV deposited onto Si(111) 7 × 7 substrate: an XPS study 402–404 (1998) 518
W. Akemann, K.A. Friedrich, U. Linke and U. Stimming, The catalytic oxidation of carbon monoxide at the platinum/electrolyte interface investigated by optical second harmonic generation (SHG): comparison of Pt(111) and Pt(997) electrode surfaces 402–404 (1998) 571
H. Raza, P.L. Wincott, G. Thornton, R. Casanova and A. Rodriguez, Photoemission studies of the reaction of benzene with TiO_2(100)1 × 1 and 1 × 3 402–404 (1998) 710

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A.V. Petukhov, W. Akemann, K.A. Friedrich and U. Stimming, Kinetics of electrooxidation of a CO monolayer at the platinum/electrolyte interface 402–404 (1998) 182
D. Dentel, J.L. Bischoff, T. Angot and L. Kubler, The influence of hydrogen during the growth of Ge films on Si(001) by solid source molecular beam epitaxy 402–404 (1998) 211
C. Polop, J.L. Sacedón and J.A. Martin-Gago, STM studies of the growth of the Si/Cu(110) surface alloy 402–404 (1998) 245
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A. Rettenberger, P. Bruker, M. Metzler, F. Mugele, Th.W. Matthes, M. Böhmisch, J. Boneberg, K. Friemelt and P. Leiderer, STM investigation of the island growth of gold on WS_2 and WSe_2 402–404 (1998) 409

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C. Muggelberg, M.R. Castell, G.A.D. Briggs and D.T. Goddard, The atomic structure of the UO_{2+x}(110) surface and the effects of interstitial oxygen: an elevated-temperature STM study 402–404 (1998) 673

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